September 2015

Second Bimonthly Report

Groundwater Monitoring Wells at the Luis Muñoz Marín International Airport (LMMIA)

CARIBBEAN AIRPORT FACILITIES, INC.

Ref.: 354-2015.09.01 2nd Bimonthly Report CAF Monitoring Wells Sampling Report FOIA



EXECUTIVE SUMMARY

As part of the *Subsurface Investigation Plan ("SIP")*, developed on March 2012 to delineate the vertical and horizontal extent of subsurface contamination with jet fuel products in the soils and groundwater in the vicinity of the Caribbean Airport Facilities, Inc. (CAF) at the Luis Muñoz Marin International Airport (LMMIA), progressive reports are to be presented on a bimonthly basis to the U.S. EPA.

This report summarizes activities performed after the installation of monitoring wells at the Luis Muñoz Marin International Airport (LMMIA) mainly in areas operated by Caribbean Airport Facilities, Inc. (CAF). Second bimonthly report herein summarizes events documented until the week ending Sunday, August 30th, 2015.

SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

A **Subsurface Investigation** effort was performed to identify any evident, current and/or potential, environmental contamination at the Luis Muñoz Marin International Airport (LMMIA) property lot, operated by Caribbean Airport Facilities, Inc. (CAF). This study was performed as per the request of **Mrs. Jean Tirri**, representing CAF.

Environmental Professional's Signature

Name: Fernando L. Rodríguez, P. E., SC

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Second Bimonthly Report

Groundwater Monitoring Wells at the Luis Muñoz Marin International Airport (LMMIA)

1.0 Daily Activities Reports

The following reports include relevant daily notes documented by the "CHES Services Corp. Team". Historical weather data has been included for up to two (2) days prior to the groundwater level readings event, as provided by Weather Underground [1].

Weather Station ID: ISANJUAN16

In addition, observed water levels reported by NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) [2].

NOAA/NOS/CO-OPS Station - San Juan, PR - Station ID: 9755371

Established:	Mar 04, 1962
Time Meridian:	60° W
Present Installation:	Mar 25, 1989
Date Removed:	N/A
Water Level Max (ref MHHW):	2.77 Sep 18, 1989
Water Level Min (ref MLLW):	-1.09 Dec 20, 1968
Mean Range:	1.1 ft.
Diurnal Range:	1.58 ft.



1.0 Daily Activities Reports (cont.)

The period encompassed within these passed two (2) months includes:

The first week of July (week ending July 2, 2015) through the last week of August (week ending August 30, 2015).

Within this period, the **First Bimonthly Sampling** event was scheduled and performed, Daily Activities for both sampling days are herein included (July 21-22, 2015). Although, analyses from these samples were not performed due to a breach in QA/QC procedures brought on by a late arrival of a cooler carrying important Blank samples.

No weather nor airport operational delays arose during those two (2) days; all sampling and QA/QC procedures were strictly followed by all teams involved. But, the unfortunate event of the late arrival of one (1) cooler was notified by the Laboratory representative, backed up with temperature data at unacceptable levels, document included after sampling days' daily activities reports.

Furthermore, CAF's e-mail notifying the U.S. EPA on July 28, 2015 of this event is also attached after sampling days' daily activities reports. If considered necessary, the sampling event could be replaced by one to be performed at the end of the scheduled sampling events.



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Address: LMMIA Date: July 2, 2015

hone:	787-751-7810		CHES Representati	ive:	NDM				
ime	Location				Activity / Observations				
7:45	CAF1	CHES Representative arr	ived						
8:15	CAF1	Nedilys called Manuel (Ja	&S Rep) for status						
8:30	CAF1	J&S and FLRA/CHES Pers	onnel arrived						
8:41	MW4	Arrived for GW level read	rived for GW level readings.						
8:45	MW4	Done							
8:47	MW2	Arrived for GW level read	dings.						
8:49	MW2	Done							
8:50	MW1	Arrived for GW level read	dings.						
8:53	MW1	Done							
9:02	Gate	Registry							
9:05	MW5	Arrived for GW level read	dings.						
9:09	MW5	Both well caps were four	nd under water; wa	iter was e	evacuated prior to opening	the well cap.			
9:12	MW5	Done							
9:20	MW5	Done							
9:21	MW9	Arrived for GW level read	dings.						
9:24	MW9	Done							
9:27	MW10	Arrived for GW level read	dings.						
	MW10	Done							
	MW11	Arrived for GW level read	dings.						
	MW11	Done	-						
9:40	MW6	Arrived for GW level read	dings.						
9:45	MW6	Done							
9:47	MW3	Arrived for GW level read	dings. Wells were b	locked b	y trucks with suitcases; GM	D employee offered to	move the carriage.		
	MW3	Done			,	' '			
	MW8	Arrived for GW level read	dings.						
10:06	MW8	Done							
		0.150/100							
10:15	CAF1	CHES/J&S teams signed of	off						
10:15	CAF1	CHES/J&S teams signed of		Forward	(Next Steps)	%Completion	Pesnonsible Party		
10:15				Forward	Deadline	%Completion	Responsible Party		
10:15	CAF1 lowing week's v		Moving		Deadline July 2, 2015	%Completion 25%	Responsible Party FLRA/J&S		
10:15		work.	Moving	eather I	Deadline July 2, 2015 History		FLRA/J&S		
10:15		work.	Moving	eather I	Deadline July 2, 2015 History				
10:15	lowing week's \	work. Two (2) days	Moving	eather I	Deadline July 2, 2015 History		FLRA/J&S		
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10:15	lowing week's v	work. Two (2) days Ty, June 30, 2015 Is Day	Moving	eather I	Deadline July 2, 2015 History ing event		FLRA/J&S		
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10:15	Tuesda « Previot Daily Temperat Mean Tr Max Te Min Tem Heating Month tr Since 1, Cooling Month tr Year to Since 1, Growing Month tr Year to Average Maximum Minimum Precipitati	Work. Two (2) days y, June 30, 2015 ss Day Weekly Monthly Custom ure emperature emperature perature ys Degree Days to date heating degree days tune heating degree days tuly heating degree days date cooling degree days tune to date cooling degree days tune to date cooling degree days tune to date cooling degree days tune to make to the total total total total tune to the total total total total total the Humidity m Humidity m Humidity on attion	Moving W prior to GW Level Actual 27 °C 29 °C 25 °C 0 0 0 16 574 2915 574 30 (Base 50) 24 °C 86 97 74	eather I Monitori Average 29 °C 32 °C 26 °C 0 0 0 18 549 2714 549	Deadline July 2, 2015 History ing event Next Day >> Record 35 °C (1988) 21 °C (1929)		Special Comments		
10:15	Tuesda « Previou Daily Temperatu Mean T. Max Te Min Ten Degree Da Heating Month t Since 1, Cooling Month t Vear to Since 1, Growin, Moisture Dew Po Average Maximu Minimu Precipitati Precipit	Work. Two (2) days y, June 30, 2015 ss Day Weekly Monthly Custom ure emperature emperature emperature emperature preserve ys 1 Degree Days to date heating degree days turne tooling degree days date cooling degree days date cooling degree days int a Humidity int Humidity in	Moving W prior to GW Level Actual 27 °C 29 °C 25 °C 0 0 0 0 16 574 2915 574 30 (Base 50)	eather I Monitor Average 29 °C 32 °C 0 0 0 18 549 2714 549	Deadline July 2, 2015 History ing event Next Day >> Record 35 °C (1988) 21 °C (1929)		Special Comments		



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Address: LMMIA Date: July 2, 2015

		Weather	-	
One (1) d	ay prior to GW	Level Monito	oring event	Special Comment
Wednesday, July 1, 2015 « Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	28 °C	28 °C		
Max Temperature	31 °C	32 °C	34 °C (1995)	
Min Temperature	25 °C	26 °C	21 °C [1959]	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	О		
Cooling Degree Days	18	18		N/A
Month to date cooling degree days	18	18		į
Year to date cooling degree days	2933	2732		į
Since 1 June cooling degree days	592	567		
Growing Degree Days	32 (Base 50)			
Moisture				
Dew Point	24 °C			
Average Humidity	79			
Maximum Humidity	97			
Minimum Humidity	61			
Precipitation				
Precipitation	3.81 mm	3.81 mm	39.12 mm (1983)	
Month to date precipitation	0.15	0.15		
Year to date precipitation	15.65	23.24		

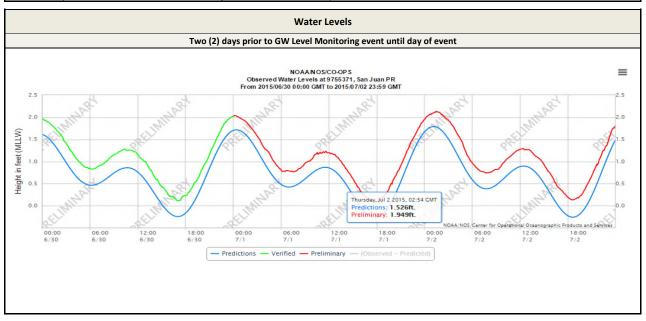
Day of GW Level Mo	nitoring event			Special Comme
Thursday, July 2, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
buny meany monthly education	Actual	Average	Record	
Temperature				
Mean Temperature	28 °C	28 °C		
Max Temperature	29 °C	32 ° C	33 °C (1995)	
Min Temperature	26 °C	26 °C	21 °C (1913)	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days		0		
Since 1 June heating degree days		0		
Since 1 July heating degree days		0		
Cooling Degree Days	16	18		N/A
Month to date cooling degree days		36		
Year to date cooling degree days		2750		
Since 1 June cooling degree days		585		
Growing Degree Days	32 (Base 50)			į
Moisture				
Dew Point	23 °C			
Average Humidity	78			
Maximum Humidity	84			
Minimum Humidity	72			
Precipitation				
Precipitation	0.0 mm	3.81 mm	3.89 mm (1928)	
Month to date precipitation		0.30		
Year to date precipitation		23.39		

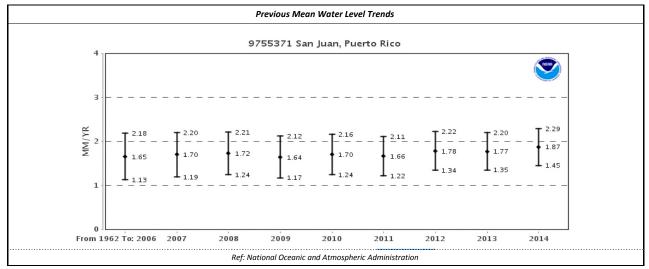


Daily Activities

CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
//Environmental Engineering & Industrial Hygiene Consultants

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Address: LMMIA Date: July 2, 2015







Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project:	CAF MW Weekly Groundwater Levels	Reading Event (Weekly for th	e first three months)
Address:	LMMIA	Date:	July 9, 2015

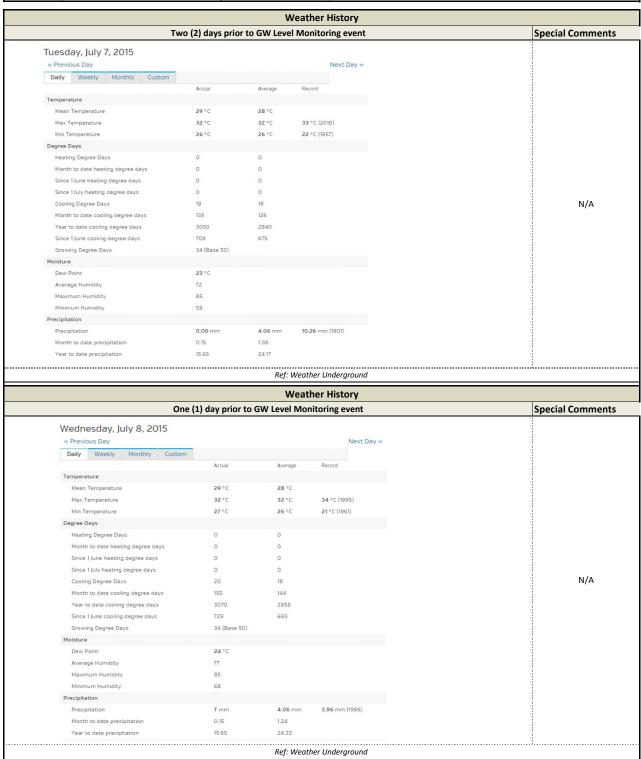
Phone:	787-751-7810	CHES Representative:	Nedilys Díaz Montañez					
Time	Location		Activity / Observations					
8:45	CAF1	CHES Representative arrived	HES Representative arrived					
9:05	CAF1	S and CHES Personnel met; receipt of Visitor's passes.						
9:20	MW5	Arrived for GW level readings.						
9:30	MW5	Done						
9:32	MW7	Arrived for GW level readings.						
9:40	MW7	Done						
9:41	MW9	Arrived for GW level readings.						
9:42	MW9D	Well blocked by cart. Asked to UPS supervisor if they	y could move the cart.					
9:48	MW9D	Employee of UPS moved the carriage.						
9:50	MW9	Done						
9:52	MW10	Arrived for GW level readings.						
9:58	MW10	Done						
10:03	MW11	Arrived for GW level readings.						
10:08	MW11	Done						
10:13	MW6	Arrived for GW level readings.						
10:20	MW6	Done						
10:21	MW3	Arrived for GW level readings.						
10:26	MW3	Done						
10:35	MW1	Arrived for GW level readings.						
10:40	MW1	Done						
10:42	MW4	Arrived for GW level readings.						
10:46	MW4	Done						
10:48	MW2	Arrived for GW level readings.						
10:53	MW2	Done						
11:01	MW8	Arrived for GW level readings.						
11:07	MW8	Done						
11:10	CAF1	Personal of J&S left.						
11:30	CAF1	CHES representative left.						
		Moving Forward	(Next Steps)					
Action Item			Deadline	%Completion	Responsible Party			
Coordinate fol	lowing week's v	vork.	July 2, 2015	100%	FLRA/J&S			



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants

CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Project: Address: Date: July 9, 2015 LMMIA



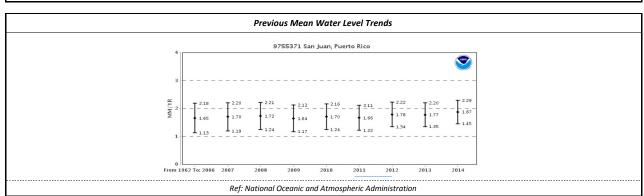


Daily Activities

CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
VEnvironmental Engine Flora Industrial Hygiene Consultants

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Date: July 9, 2015 Address: LMMIA

		Weather	History	
	ay of GW Level M	onitoring eve	ent	Special Comments
Thursday, July 9, 2015 « Previous Day Daily Weekly Monthly Custon Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 July heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Year to date cooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity Minimum Humidity Precipitation		Average 28 ° C 32 ° C 26 ° C 0 0 0 18 162 2876 711	Next Day Record 33 °C (1995) 21 °C (1928)	N/A
Month to date precipitation		1.41		
Year to date precipitation		24.50		
	F	Ref: Weather U	nderground	
		Water L	evels	
_	(2) dans miles 1 (f
Two	(2) days prior to (W Level Mo	nitoring event until day of	tevent
2.5 2.0 (MT) 1.5 Fusiday, Jul 2 2015, 00-42 CMT Preliminary 0.84ft. Preliminary 0.84ft. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	18:00 00:00 7/7 7/8	06:00 11 7/8 7	2:00 18:00 00:00	2.5 2.0 2.0 1.5 1.0 0.5 Center for Operational Coverage rathic Froducts and Jenness 0.6.00 12.00 18.00 7/9 7/9 7/9





Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project:	CAF MW Weekly Groundwater Levels R	eading Event (Weekly for the	e first three months)
Address:	LMMIA	Date:	July 16, 2015

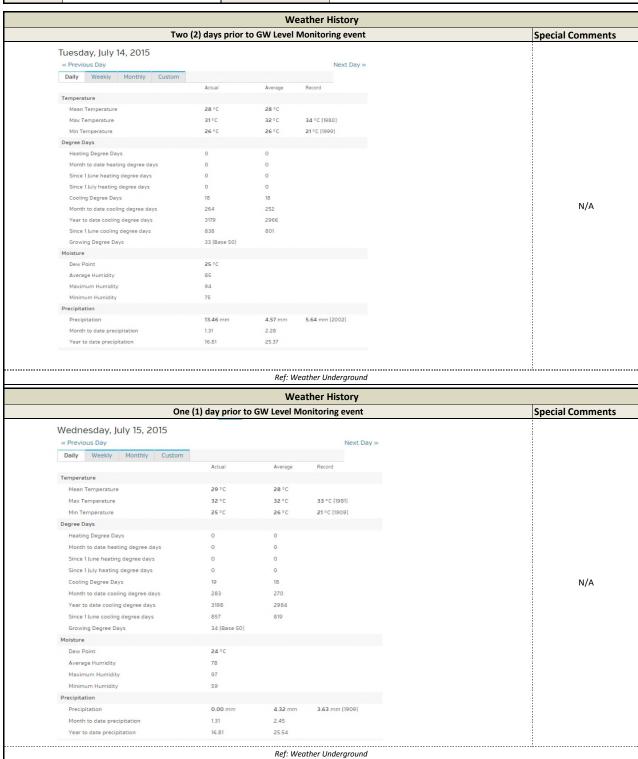
Phone:	787-751-7810		CHES Repre	sentative:	Nedilys Díaz Montañez		
	Eddie Joel Sevi	lla (J&S)			I		
Attendance:							
Time	Location				Activity / Observations		
8:49	CAF1	CHES Representative arr	ived				
9:05	CAF1	Work began.					
9:15	MW5	Arrived for GW level rea	dings. (MW5	D with water)			
9:25	MW5	Done					
9:26	MW7	Arrived for GW level rea	dings. (Both	wells with wate	er)		
9:33	MW7	Done					
9:35	MW9	Arrived for GW level rea	dings. (MW	D It's blocked b	y cart. UPS supervisor was help	ful in extracting cart)
9:43	MW9	Done					
9:45	MW10	Arrived for GW level rea	dings.				
9:50	MW10	Done					
9:53	MW11	Arrived for GW level rea	dings.				
10:00	MW11	Done					
10:06	MW6	Arrived for GW level rea	dings.				
10:14	MW6	Done					
10:15	MW3	With the help of GMD Su	upervisor; te	am was able to	perform the GW level readings		
10:27	MW3	Done					
10:33	MW1	Arrived for GW level rea	dings.				
10:40	MW1	Done					
10:41	MW4	Arrived for GW level rea	dings.				
10:46	MW4	Done					
10:48	MW2	Arrived for GW level rea	dings.				
10:55	MW2	Done					
11:02	MW8	Arrived for GW level rea	dings.				
11:09	MW8	Done					
11:16	CAF1	CHES representative sign	ned off.				
			N	Noving Forward	(Next Steps)		
Action Item					Deadline	%Completion	Responsible Party
N/A					N/A	N/A	N/A



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Date: Address: LMMIA July 16, 2015

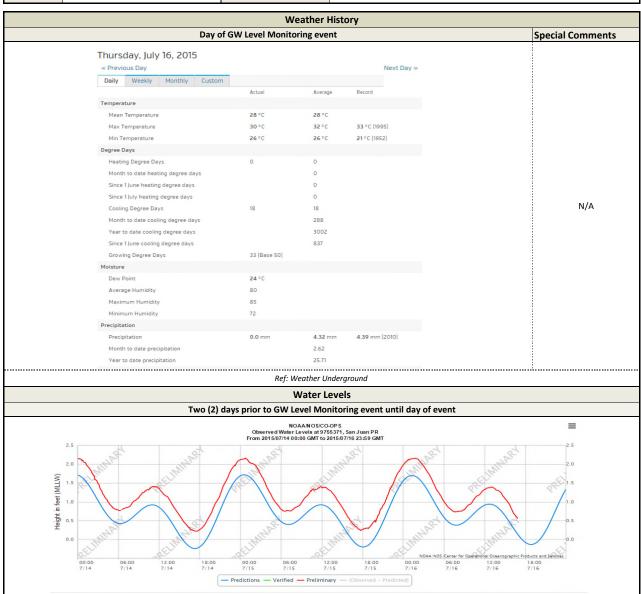


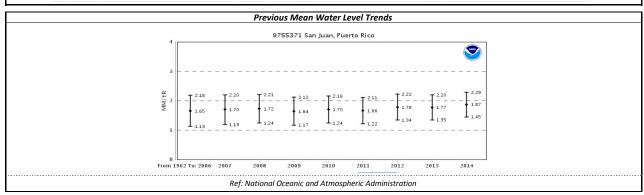


Daily Activities

CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
//Environmental Engineering & Industrial Hygiene Consultants

Project: CAF MW Weekly Groundwater Levels Reading Event (Weekly for the first three months) Date: July 16, 2015 Address: LMMIA







Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project:	CAF MW Bimonthly Sampling Event		
Address:	LMMIA	Date:	July 21, 2015

Phone:	787-751-7810	CF	HES Representative:	HRM/NDM/DP				
Time	Location		Ac	tivity / Observation	ns			
7:17	CAF 1	Work on Field Blank (FB) fil	rk on Field Blank (FB) filling					
7:40	MW11	Arrival & work on FB						
8:18	MW11	Decided to stop purge due	to low flow					
8:45	MW11	Very low flow @ 11S						
8:50	CAF 1	Joel (J&S) fetching conduct	tivity meter.					
9:05	MW10	Arrival @ MW10 setting up)					
9:20	MW10D	Very low yield stopped pur	rge after 2 gallons.					
9:32	MW10S	Moving pump						
9:39	MW10S	Low yield pretty clear after	r purging 1 galon. Sampli	ng after 1.5 gallon pu	irge due to low yield			
9:45	MW10S	Done sampling						
10:00	MW6	Arrival & setup						
10:10	MW6D	Low yield. Decided to samp	ple after 2 gallons.					
10:33	MW6S	Purged 2 galons but paused	d due to very low yield; o	ontinued shortly after	er at lower flow rate			
11:05	MW3D	Barely filled 1 galon. Will sa	ample after purging 3 gal	ons				
11:25	MWW3S	Flow running low. Sampling	g @ 1.5 galons					
11:45		LUNCH						
12:45	MW9	Arrival & prep						
13:29	MW9	Both well done purged						
13:49	MW5	Arrival						
14:30	MW5	Done both well						
14:38	MW7	Arrival and prep						
15:15	MW7	Done both wells' sampling						
17:45	CAF 1	Done packing up samples.						
			Moving Forward (N	ext Steps)				
Action Item				Deadline	%Completion	Responsible Party		
N/A				N/A	N/A	N/A		



Daily Activities

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Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project: CAF MW Bimonthly Sampling Event Date: July 21, 2015 LMMIA Address:

Two (2) day	s prior to samplir	ther History		Enosial Comment
Two (2) day	s prior to sampin	ig event		Special Comment
Sunday, July 19, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	28 °C	28 °C		
Max Temperature	31 °C	32 °C	33 °C (2006)	
Min Temperature	24 °C	26 °C	21 °C (1960)	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	17	18		
Month to date cooling degree days	354	342		
Year to date cooling degree days	3269	3056		
Since 1 June cooling degree days	928	891		
Growing Degree Days	32 (Base 50)			
Moisture				
Dew Point	23 °C			
Average Humidity	77			
Maximum Humidity	94			
Minimum Humidity	59			
Precipitation				
Precipitation	2.29 mm	4.32 mm	4.17 mm (1975)	
Month to date precipitation	1.46	3.14		
Year to date precipitation	16.96	26.23		<u> </u>

		Weather Hi			
One (1) day prior to sa	mpling event		Special Co	mm
Monday, July 20, 2015					
« Previous Day			Next Day »		
Daily Weekly Monthly Custom					
	Actual	Average	Record		
Temperature					
Mean Temperature	28 °C	28 °C			
Max Temperature	31 °C	32 °C	33 °C (1995)		
Min Temperature	24 °C	26 °C	22 °C (1939)		
Degree Days					
Heating Degree Days	0	0			
Month to date heating degree days	0	0			
Since 1 June heating degree days	0	0			
Since 1 July heating degree days	0	0			
Cooling Degree Days	17	18			
Month to date cooling degree days	371	360			
Year to date cooling degree days	3286	3074			
Since 1 June cooling degree days	945	909			
Growing Degree Days	32 (Base 50)				
Moisture					
Dew Point	24 °C				
Average Humidity	80				
Maximum Humidity	94				
Minimum Humidity	65				
Precipitation					
Precipitation	2.79 mm	4.32 mm	61.21 mm (1915)		
Month to date precipitation	1.57	3.31			
Year to date precipitation	17.07	26.40			

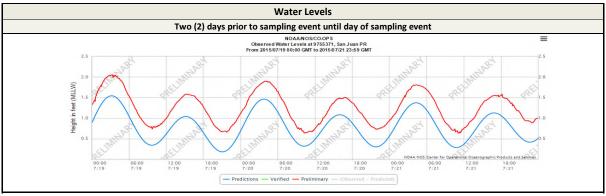


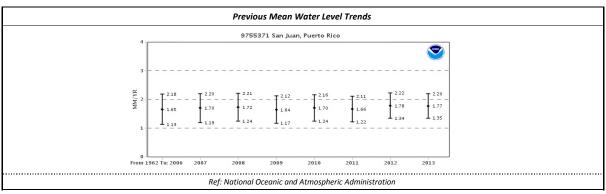
Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants

CAF MW Bimonthly Sampling Event Project: Date: July 21, 2015 Address: LMMIA

		Wea	ther History	
	Day of sa	mpling event		Special Commen
Tuesday, July 21, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	28 °C	28 °C		
Max Temperature	32 °C	32 °C	33 °C [1981]	
Min Temperature	25 °C	26 °C	21 °C [1957]	į.
Degree Days				•
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		i i
Since 1 July heating degree days	0	0		
Cooling Degree Days	18	18		
Month to date cooling degree days	389	378		
Year to date cooling degree days	3304	3092		
Since 1 June cooling degree days	963	927		
Growing Degree Days	33 (Base 50)			
Moisture				
Dew Point	25 °C			
Average Humidity	82			
Maximum Humidity	100			į.
Minimum Humidity	64			•
Precipitation				
Precipitation	0.51 mm	4.32 mm	5.87 mm [2009]	<u> </u>
Month to date precipitation	1.59	3.48		
Year to date precipitation	17.09	26.57		
C11 D				
		0.610	ther Underground	







Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project:	CAF MW Bimonthly Sampling Event		
Address:	LMMIA	Date:	July 22, 2015

Phone:	787-751-7810	C	CHES Representative:	HRM/NDM/DP					
Time	Location		Activity / Observations						
6:50	CAF 1	Arrival CHES Team							
7:15	MW4	Arrival, prepping, work or	ı blanks						
8:22	MW4	Done sampling of both we	ells						
8:31	MW2	Arrival & prep							
9:10	MW2	Its cloudy							
9:20	MW2	Done sampling of both we	ells						
9:23	MW1	Arrival and prepping							
10:11	MW1	Done sampling of both we	one sampling of both wells						
10:13	MW8	Arrival and prepping	rival and prepping						
11:06	MW8	Done sampling of both we	ells						
11:30		LUNCH							
12:30	CAF 1	Prepping samples							
1:15	CAF 1	Shipping							
			Moving Forward (Next St	teps)					
Action Item				Deadline	%Completion	Responsible Party			
N/A				N/A	N/A	N/A			



Daily Activities

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Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project:	CAF MW Bimonthly Sampling Event		
Address:	LMMIA	Date:	July 22, 2015

		Weather Hi	story	
Two (2)	days prior to sa	ampling even	t	Special Comments
Monday, July 20, 2015 « Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				!
Mean Temperature	28 °C	28 °C		
Max Temperature	31 °C	32 °C	33 °C (1995)	
Min Temperature	24 °C	26 °C	22 °C (1939)	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		Some cloudy moments mid-
Cooling Degree Days	17	18		morning.
Month to date cooling degree days	371	360		
Year to date cooling degree days	3286	3074		
Since 1 June cooling degree days	945	909		
Growing Degree Days	32 (Base 50)			
Moisture				:
Dew Point	24 °C			
Average Humidity	80			
Maximum Humidity	94			
Minimum Humidity	65			
Precipitation				
Precipitation	2.79 mm	4.32 mm	61.21 mm [1915]	
Month to date precipitation	1.57	3.31		
Year to date precipitation	17.07	26.40		
••••	Rej	f: Weather Und	erground	

Weather History					
	One (1)	day prior to sa	mpling event		Special Comme
Tuesday, July 21, 2015					
« Previous Day			Next Day »		
Daily Weekly Monthly Custom					
	Actual	Average	Record		
Temperature					
Mean Temperature	28 °C	28 °C			
Max Temperature	32 °C	32 °C	33 °C (1981)		
Min Temperature	25 °C	26°C	21 °C (1957)		
Degree Days					
Heating Degree Days	0	0			
Month to date heating degree days	0	0			
Since 1 June heating degree days	0	0			
Since 1 July heating degree days	0	0			
Cooling Degree Days	18	18			
Month to date cooling degree days	389	378			
Year to date cooling degree days	3304	3092			
Since 1 June cooling degree days	963	927			
Growing Degree Days	33 (Base 50)				
Moisture					
Dew Point	25 °C				
Average Humidity	82				
Maximum Humidity	100				
Minimum Humidity	64				
Precipitation					
Precipitation	0.51 mm	4.32 mm	5.87 mm [2009]		
Month to date precipitation	1.59	3.48			
Year to date precipitation	17.09	26.57			
			f: Weather Undergrou		ii



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project: CAF MW Bimonthly Sampling Event Date: July 22, 2015 LMMIA Address:

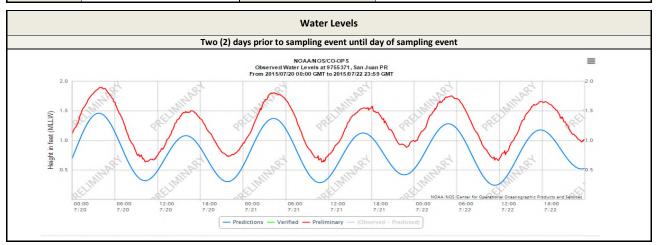
				Weather His	story		
		Day	of sampli	ng event			Special Commen
	dnesday, j	uly 22, 2	015			Next Da	
Dai		Monthly	Custom				
				Actual	Average	Record	
Tem	perature						
M	ean Temperatur	e		30 °C	28 °C		
M	ax Temperature			34 °C	32 °C	33 °C [1974]	
M	in Temperature			26 °C	26 °C	21 °C (1936)	
Degr	ee Days						
н	eating Degree D	ays		0	0		
M	onth to date he	iting degree da	ays	0	0		
Si	nce I June heati	ng degree days		0	0		
Si	nce 1 July heatin	g degree days		0	0		
C	ooling Degree D	iys		21	18		
М	onth to date coo	ling degree da	ys	410	396		
Y	ear to date cooli	ng degree day:		3325	3110		
Si	nce I June coolir	g degree days		984	945		
G	rowing Degree D	ays		36 (Base 50)			
Mois	ture						
D	ew Point			24 °C			
A	verage Humidity			75			
	aximum Humidi			97			
	inimum Humidit	y		52			
Prec	ipitation						
	recipitation			Tmm	4.06 mm	5.66 mm (2007)	
M	onth to date pre	cipitation		1.59	3,64		
Y	ear to date preci	pitation		17.09	26.73		į

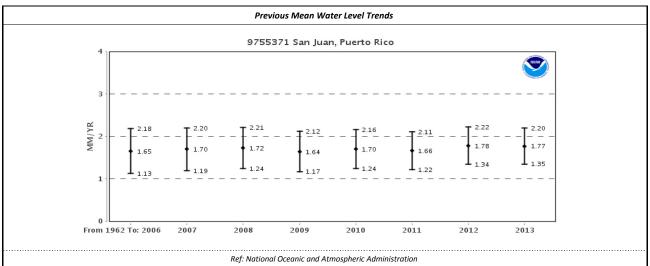


Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
Chemicol/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project:	CAF MW Bimonthly Sampling Event		
Address:	LMMIA	Date:	July 22, 2015







[URGENT] First Bimonthly Sampling Event

Jean Tirri <jeantir@msn.com>

Tue, Jul 28, 2015 at 10:19 AM

To: "lareau.meghan@epa.gov" <lareau.meghan@epa.gov> Cc: Fernando Rodriguez <flrodriguez@flraches.com>

Good morning Meghan,

Thank you for your time today. As we discussed, UPS delayed delivery of our July 21 sampling rendering them useless. Attached is the memorandum from our consultant reference the situation. His recommendation is that we request that sampling be eliminated or at worst case, scheduled for the end of the process, so we can review if it is necessary.

The initial sampling report was very positive and actually only one well (#8) showed levels of concern. I have also attached that report for your review.

Additionally, our first ground water sampling was successfully completed and we sent that to you on July 20, 2015.

We sincerely appreciate your understanding, having to mobilize for another sampling, off schedule will be extremely costly. Our next sampling of the wells is scheduled for September and we will keep that schedule.

With regards, Jean Tirri

MEMO

To:

Mrs. Jean Tirri

Caribbean Airport Facilities, Inc.

From:

Fernando L. Rodríguez, P.E.

Consultant

Date:

July 24, 2015

Subject:

First Groundwater Wells Sampling Event

Administrative Order

Caribbean Airport Facilities, Inc.

Carolina, PR

This is to inform you that our office coordinated and completed with Jaca & Sierra (J&S) the reference field work during July 21 – 22, 2015 in accordance to established procedures. All collected groundwater samples were properly preserved and packaged with ice to maintain refrigeration temperatures as per set protocols in cooler chests and delivered for shipment at the United Parcel Services (UPS) counter located in CAF 1 lobby at the end of both days by our personnel.

Ms. Natalie Luciano, Senior Specialist from Eurofins Lancaster Laboratories Environmental, LLC (ELLE) sent us an email just before noon yesterday indicating that one of the cooler chests shipped on the evening of Tuesday, July 21, 2015, was delayed by a full day. Further, the temperatures in the first day samples field blank sample was at 17.7 °C and its surrounding internals ranged from 16.3-17.6 °C. Copy of her email is attached for your reference.

These conditions are unacceptable as per requirements established in the quality assurance protocols approved by the federal Environmental Protection Agency (EPA) for this project. Therefore, the groundwater samples collected, shipped and received at the lab cannot be analyzed translating that the 2-days field work effort is lost.

Tel.: (787) 751-7810 | Fax (787) 751-8988 | E-mail: <u>firodriguez@firaches.com</u> | Web Page: http://www.firaches.com

ernando L. Rodríguez, P.E. & Associates

Web Page: http://www.firaches.com Tel.: (787) 751-7810 | Fax (787) 751-8988 | E-mail: <u>firodriguez@firaches.com</u> | Chemical/Environmental Engineering and Industrial Hygiene Consultants

We have to schedule new dates to conduct the groundwater sampling efforts as soon as possible but associated costs for our group, the geotechnical team and the required lab materials for this effort must be covered properly by CAF. We are attaching a cost estimate on a tabulated sheet that shows specific cost items per past and new sampling efforts to be covered.

Our recommendation is that CAF present a claim to fully cover both activities to UPS promptly. Copy of shipping papers and Chain of Custody (COC) forms are attached to be included in your claim document.

Furthermore, we do recommend to use Federal Express (FedEx) courier services during the re-sampling event and the next scheduled events aiming to continue the required field activities in accordance to the agreed program under the legal order with EPA. At least until CAF resolves its claim to UPS and then you decide which courier company to be used in the future.

We look forward to your prompt decision on this matter. Feel free to contact our office if you have any questions on the heretofore mentioned as soon as possible.

FLR/hrm

C: N. Luciano, ELLE

Attachments

Ref: 354-78



Hanna Rodriguez <hkrodriguez@firaches.com>

RE: CAF Shipment (July 21, 2015) - 4 coolers

Natalie Luciano <NatalieLuciano@eurofinsus.com>

Thu, Jul 23, 2015 at 11:21 AM

To: Hanna Rodriguez <hkrodriguez@flraches.com>

Cc: Technical Intern <tech.intern@flraches.com>, Carmen Figueroa <cfigueroa@flraches.com>

Hanna,

We didn't get one of the coolers yesterday, but it arrived today. I attached a copy of the COC and receipt documentation for the delayed cooler.

The temperature blank was at 17.7C. We also checked the surface temperatures at the 4 corners and center of the cooler, which ranged from 16.3-17.6C.

May we proceed with the analyses and comment on the temperature?

Thank you,

Natalie Luciano

Senior Specialist, Environmental Client Services

Phone: +1 717-556-7258

Look for Eurofins Lancaster Laboratories Environmental at these upcoming conferences and industry events.

From: hkrodriguez@gmail.com [mailto:hkrodriguez@gmail.com] On Behalf Of Hanna Rodriguez

Sent: Wednesday, July 22, 2015 7:04 AM

To: SAEnvEntry@eurofins.com

Cc: Natalie Luciano; Technical Intern; Carmen Figueroa **Subject:** CAF Shipment (July 21, 2015) - 4 coolers

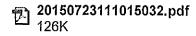
Please find Chains of Custody pertaining to yesterday's shipment of 4 coolers.

Please confirm receipt of this email and its contents.

Warm regards,

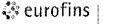
Hanna Rodriguez

Notify us here to report this email as spam.



Environmental Analysis Request/Chain of Custody

)) 1 1	1))) :		:))) 3)	
Lancaster Laboratories Environmental			Acct #		Group #	*			Sample #	#				
Client Fernando L. Rodríguez, PE & Associates					Ma	Matrix		-		Analyse	Analyses Requested		For Lab Use Only	se Only
Project Name/#: CAF GW Monitoring Well Construction Project (Initial Sampling)	Site ID #:	Caribbea (L.M.M.	n Airpor Int'i Air	Caribbean Airport Facilities (L.M.M. Int'l Airport-SJU)			T			Preservation	ation Codes		. ∰ ∰	•
Project Manager: Fernando L. Rodríguez	P.O. #					908		1	₹ ?		_		SCR#:	
Sampler: David Perez / Six H. Rossis	PWSID#.				i ອກ າ່ ພວາວ	Sura							Preserv	Preservation Codes
Phone #: 181-151-1810 /	Quote #:								- "				i E	T = Thiosulfato
State where sample(s) were collected: Puerto Rico		ļ						(5)	КO				ONH E N	B to NaOH
	Colle	Collection		ejisod	D Potal	MPD :	# of C	१ ५	CL H				S = H ₂ SO,	Pa H ₃ PO.
Sample Identification	Date	Time	Grab	Comp	Soll).1.	ــــــــــــــــــــــــــــــــــــــ				O. Other Rer	Remarks
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Field Plank	21-12-12	95'L		1		>	st.	ჟ	2					
Trip Blank	Si-18-15			>		>	۲۵,							^
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Turnaround Time Requested (TAT) (please check): Standar (Rush TAT is subject to laboratory approval and surchar	Standard wat and surcharge	dard 🗸	Rush		Relinquished by:	ed by	(Z)		Date 7/2/1/2008	Time 16:93	Received by:	ı,	Date	Time
Date results are needed:					Retinquished by	ed by:		,	Date	Time	Received by:		Date	Time
Rush results requested by (please check): E-Mail	D	Phone	l e						ì					~~
E-mail Address: hkrodriguez@flraches.com; CC: flrachespr@gmail.	hespr@gma	ail.com			Relinquished by:	ned by:		<u></u>	Date	Time	Received by:	,	Date	Time
Data Package Options (please check if required) Type I (Validation/non-CLP) ☐ MA MCP					Relinquished by:	.yd bar			Date	Time	Received by		Date	Time
Type III (Reduced non-CLP) CT RCP Type VI (Raw Data Only) TX TRRP-13					Relinquished by:	red-fby:			Date	Time	Received by	N.	Date 5.38.15	Time S (S
EC Category	 - -	œ			Relinquished by Commercial Carrier.	ed by	Comme	rcial (arrier:] !	
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c Lapscac Ladium	eter Laboratories Eo	wirenments	<u>0</u>	2425 Now	AIG Presion	ende I o	etor D/	17603	- 747,65	0300				JUNE DE



Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

89587

Group Number(s):

Client: Fernando

Delivery and Receipt Information

Delivery Method:

UPS

Arrival Timestamp:

07/23/2015 8:15

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

PR

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

Yes

Sample Date/Times match COC:

Yes

Custody Seal Intact:

Yes

VOA Vial Headspace ≥ 6mm:

Air Quality Samples Present:

No

Samples Chilled:

Yes

Total Trip Blank Qty:

2

Paperwork Enclosed:

Yes Yes Trip Blank Type:

HCL No

Samples Intact: Missing Samples:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Timothy Cubberley (6520) at 10:29 on 07/23/2015

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Samples

Cooler# Thermometer ID Corrected Temp

Therm. Type

Ice Type Ice Present? Ice Container

Elevated Temp?

Collected Same

1 DT131

17.7

DT

Wet

N

Bagged

Day as Receipt?

Υ

Ν

Elevated Temperature Details

All Temperatures in °C

<u>Thermometer</u> Cooler# ID 8013596-IR 1

Top Left Temp 17.6

Top Right <u>Temp</u> 16.3

Bottom Left <u>Temp</u> 17.3

Bottom | Right Temp 16.5

Center <u>Temp</u> 17.0

Factors Contributing to **Elevated Temp**

Comments

Missing cooler from the other day.

Samples In Elevated-Temperature Coolers

Sample ID

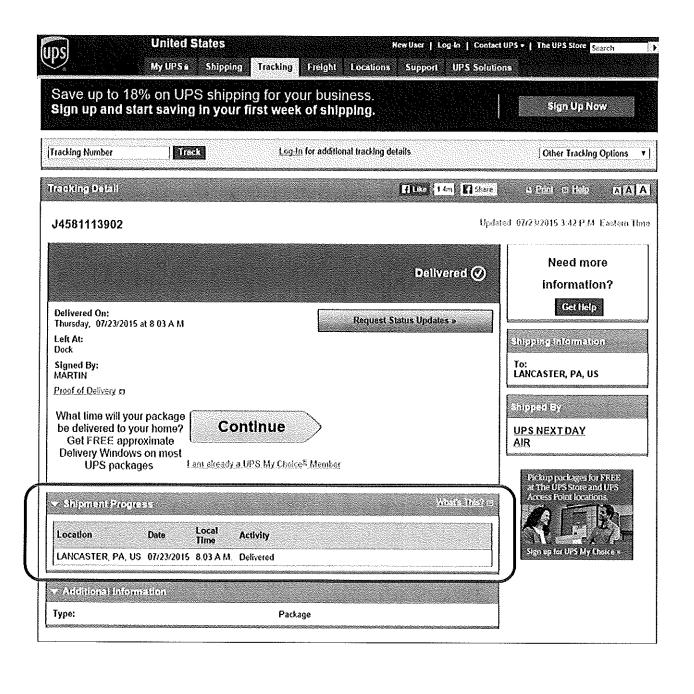
Cooler # 1

All Samples

2425 New Holland Pike Lancaster, PA 17605-2425 ,

T : 717-656-2300 F | 717-656-2681 www.LancasterLabs.com

UPS Next Day Air UPS Worldwide Express* Shipping Document	WHOTH CAPACESS OR PAK WHOTH DIMENSIONAL LARGE WEIGHT (Applicable LAPACES) NEXT BAY CAPACES	SHOPPER RELEASE 1 (
See instructions on back. Visit UPS.com° or call 1-800-PICK-UPS* (800-742-5877) for additional information and Tarlff/Terms and Conditions.	STREET OF ARROWS SHIPMENTS STREET OF THE PRINCIPLE OF TH	Assemble value of statement of
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NAME TREPROSE 5 400 Tivu 787 791 4545	ADDITIONA HANDING OPARG An Additional Handling Charge applies for certain items. See Instructions.	C in editation. The color of th
COMPARY		or independent of the control of the
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Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project:	CAF MW Weekly Groundwater levels re	ading	
Address:	LMMIA	Date:	July 30, 2015

Phone:	787-751-7810		CHES Representative:	NDM						
Time	Location		Acti	vity / Observatio	ns					
8:00	CAF1	CHES Personnel arrived								
8:30	CAF1	J&S and FLRA personal a	rrival							
8:51	MW5	Arrived for GW level rea	rived for GW level readings.							
8:55	MW5	Done								
8:56	MW7	Arrived for GW level rea	dings.							
8:59	MW7	Done								
9:00	MW9	Arrived for GW level rea	dings.							
9:03	MW9	Done								
9:05	MW10	Arrived for GW level rea	dings.							
9:07	MW10	Done								
9:12	MW11	Arrived for GW level rea	dings.							
9:14	MW11	Done	 Done							
9:16	MW6	Arrived for GW level rea	dings.							
9:22	MW6	Done								
9:24	MW3	Arrived for GW level rea	dings.							
9:28	MW3	Done								
9:32	MW1	Arrived for GW level rea	dings.							
9:35	MW1	Done								
9:37	MW4	Arrived for GW level rea	dings.							
9:40	MW4	Done								
9:41	MW2	Arrived for GW level rea	dings.							
9:44	MW2	Done								
9:46	MW8	Arrived for GW level rea	dings.							
9:51	MW8	Done								
9:57	CAF1	CHES/J&S left								
			Moving Forward (Ne	xt Steps)						
Action Item				Deadline	%Completion	Responsible Party				
N/A				N/A	N/A	N/A				



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project: CAF MW Weekly Groundwater levels reading July 30, 2015 LMMIA Date: Address:

	Weather History							
Two (2)	Special Commen							
Tuesday, July 28, 2015								
« Previous Day			Next Day »					
Daily Weekly Monthly Custom								
	Actual	Average	Record					
Temperature								
Mean Temperature	29 °C	28 °C						
Max Temperature	32 °C	32 °C	33 °C (1981)					
Min Temperature	27 ° C	26 °C	21 °C (1899)					
Degree Days								
Heating Degree Days	0	0						
Month to date heating degree days	0	0						
Since 1 June heating degree days	0	0						
Since 1 July heating degree days	0	0						
Cooling Degree Days	20	18						
Month to date cooling degree days	528	504						
Year to date cooling degree days	3443	3218						
Since 1 June cooling degree days	1102	1053						
Growing Degree Days	35 (Base 50)							
Moisture								
Dew Point	24 °C							
Average Humidity	75							
Maximum Humidity	91							
Minimum Humidity	59							
Precipitation								
Precipitation	0.00 mm	4.06 mm	5.26 mm (1942)					
Month to date precipitation	1.59	4.61						
Year to date precipitation	17.09	27.70						

One (:	Special Commen			
Wednesday, July 29, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
Daily Honory Custom	Actual	Average	Record	
Temperature				
Mean Temperature	29 °C	29 °C		
Max Temperature	32 °C	32 °C	33 °C (1984)	
Min Temperature	27 °C	26 °C	21 °C (1919)	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	20	18		
Month to date cooling degree days	548	522		
Year to date cooling degree days	3463	3236		
Since 1 June cooling degree days	1122	1071		
Growing Degree Days	35 (Base 50)			
Moisture				
Dew Point	24 °C			
Average Humidity	74			
Maximum Humidity	85			
Minimum Humidity	63			
Precipitation				
Precipitation	0.00 mm	3.81 mm	7.42 mm (1931)	
Month to date precipitation	1.59	4.76		
Year to date precipitation	17.09	27.85		

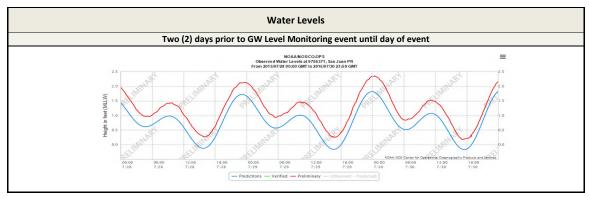


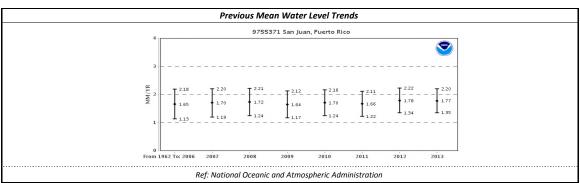
Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.firaches.com

Project: CAF MW Weekly Groundwater levels reading July 30, 2015 Address: LMMIA Date:

Weather History							
Day	Special Comment						
Thursday, July 30, 2015							
« Previous Day			Next Day »				
Daily Weekly Monthly Custom							
	Actual	Average	Record				
Temperature							
Mean Temperature	27 °C	29 ° C					
Max Temperature	30 °C	32 °C	34 °C (1990)				
Min Temperature	26 °C	26 °C	21 °C (1955)				
Degree Days							
Heating Degree Days	0	0					
Month to date heating degree days		0					
Since 1 June heating degree days		0					
Since 1 July heating degree days		0					
Cooling Degree Days	16	18					
Month to date cooling degree days		540					
Year to date cooling degree days		3254					
Since I June cooling degree days		1089					
Growing Degree Days	31 (Base 50)						
Moisture							
Dew Point	24 °C						
Average Humidity	79						
Maximum Humidity	82						
Minimum Humidity	72						
Precipitation							
Precipitation	0.0 mm	3.81 mm	5.28 mm (2006)				
Month to date precipitation		4.91					
Year to date precipitation		28.00					







Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodríguez, PE & Associate:
Chemical/Environmental Engineering & Industrial Hygiene Consultant:
www.flraches.com.

Project:	CAF Groundwater Monitoring Wells		
Address:	LMMIA	Date:	July-15

Weather History

Climatological Data for SAN JUAN L M MARIN AP, PR - July 2015

Click column heading to sort ascending, click again to sort descending.

Date		Temper	rature		HDD	CDD	TDD Description	New Snow	Snow Depth
Date	Maximum	Minimum	Average	Departure	HDD	CDD	Precipitation	New Show	Snow Depti
2015-07-01	88	77	82.5	-0.9	0	18	0.15	0.0	0
2015-07-02	91	78	84.5	1,1	0	20	T	0.0	0
2015-07-03	89	80	84.5	1,1	0	20	T	0.0	0
2015-07-04	88	80	84.0	0.6	0	19	T	0.0	0
2015-07-05	89	80	84.5	1,1	0	20	0.00	0.0	0
2015-07-06	89	78	83.5	0.1	0	19	T	0.0	0
2015-07-07	89	78	83.5	0.1	0	19	0.00	0.0	0
2015-07-08	89	80	84.5	1,1	0	20	T	0.0	0
2015-07-09	89	78	83.5	0.1	0	19	0.02	0.0	0
2015-07-10	88	78	83.0	-0.4	0	18	0.02	0.0	0
2015-07-11	91	78	84.5	1,1	0	20	0.00	0.0	0
2015-07-12	84	75	79.5	-3,9	0	15	0.59	0.0	0
2015-07-13	90	77	83.5	0.1	0	19	0.00	0.0	0
2015-07-14	88	78	83.0	-0.4	0	18	0.53	0.0	0
2015-07-15	90	77	83.5	0.1	0	19	0.00	0.0	0
2015-07-16	87	79	83.0	-0.4	0	18	0.06	0.0	0
2015-07-17	89	77	83.0	-0.4	0	18	0.00	0.0	0
2015-07-18	87	79	83.0	-0.4	0	18	0.00	0.0	0
2015-07-19	88	76	82.0	-1.4	0	17	0.09	0.0	0
2015-07-20	88	75	81.5	-1.9	0	17	0.11	0.0	0
2015-07-21	89	77	83.0	-0.4	0	18	0.02	0.0	0
2015-07-22	93	78	85.5	2,1	0	21	T	0.0	0
2015-07-23	90	79	84.5	1,1	0	20	0.00	0.0	0
2015-07-24	90	78	84.0	0.6	0	19	0.00	0.0	0
2015-07-25	90	78	84.0	0.6	0	19	0.00	0.0	0
2015-07-26	91	78	84.5	1,1	0	20	0.00	0.0	0
2015-07-27	90	79	84.5	1,1	0	20	T	0.0	0
2015-07-28	90	80	85.0	1,6	0	20	0.00	0.0	0
2015-07-29	90	80	85.0	1,5	0	20	0.00	0.0	0
2015-07-30	91	80	85.5	2,0	0	21	T	0.0	0
2015-07-31	91	79	85.0	1,5	0	20	0.02	0.0	0
Sum	2766	2424	-		0	589	1.61	0.0	-
Average	89.2	78.2	83.7	0.3	-	-	-	-	0.0
Normal	88.7	78.1	83.4	-	0	570	5.07	0.0	-

Ref: NOAA NWSF; NOWData - NOAA Online Weather Dat; San Juan LMMIA Statioi



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
www.flraches.com

Project:	CAF MW Weekly Groundwater levels re	ading	
Address:	LMMIA	Date:	August 6, 2015

Phone:	787-751-7810	CHES Representative:	NDM							
Time	Location		Activity / Observations							
8:00	CAF1	CHES Personnel arrived	IES Personnel arrived							
8:10	CAF1	S and FLRA personal arrival								
8:23	MW5	Arrived for GW level readings.	ived for GW level readings.							
8:25	MW5D	It's full of water passed the water-tight plug. Drained	prior to opening well cap.							
8:30	MW5	Done								
8:31	MW7	Arrived for GW level readings. Both wells are full of w	ater passed the water-tight plug. Evac	cuated water.						
8:40	MW7	Done								
8:41	MW9	Arrived for GW level readings.								
8:47	MW9	Done								
8:48	MW10	Arrived for GW level readings.								
8:52	MW10	Done								
8:57	MW11	Arrived for GW level readings.								
9:03	MW11	Done								
9:06	MW6	Arrived for GW level readings.								
9:13	MW6	Done	une							
9:14	MW3	Arrived for GW level readings.	rived for GW level readings.							
9:17	MW3	Done								
9:22	MW1	Arrived for GW level readings.								
9:26	MW1	Done								
9:27	MW4	Arrived for GW level readings.								
9:30	MW4S	A slight sheen was observed on MW4S.								
9:32	MW4	Done								
9:33	MW2	Arrived for GW level readings.								
9:34	MW2S	A slight sheen was observed on MW2S.								
9:35	MW2	A slight sheen was observed on both wells.								
9:37	MW2	Done								
9:40	MW8	Arrived for GW level readings.								
9:45	MW8	Done								
9:50	CAF1	CHES/J&S signed off								
		Moving Forward	d (Next Steps)							
Action Item			Deadline	%Completion	Responsible Party					
N/A			N/A	N/A	N/A					



Daily Activities

Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants

Project: CAF MW Weekly Groundwater levels reading LMMIA August 6, 2015 Address: Date:

	We	eather Histo	ory	
Two (2) days	Special Comments			
Tuesday, August 4, 2015				
« Previous Day	_		Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	29 ° €	29 °C		
Max Temperature	32 °C	32 °C	33 °C (2005)	
Min Temperature	26 °C	26 °C	21 °C (1955)	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	20	19		
Month to date cooling degree days	77	76		
Year to date cooling degree days	3581	3360		
Since 1 June cooling degree days	1240	1195		
Growing Degree Days	34 (Base 50)			
Moisture				•
Dew Point	24 °C			
Average Humidity	80			
Maximum Humidity	91			
Minimum Humidity	68			
Precipitation				
Precipitation	Tmm	3.81 mm	6.88 mm [1945]	
Month to date precipitation	0.43	0.60		
Year to date precipitation	17.54	28.76		

One (1) day p	Special Commer			
Wednesday, August 5, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	29 °C	29 °C		
Max Temperature	32 °C	32 °C	34 °C (2010)	
Min Temperature	25 °C	26 °C	21 °C [1959]	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	19	19		
Month to date cooling degree days	96	95		
Year to date cooling degree days	3600	3379		
Since 1 June cooling degree days	1259	1214		
Growing Degree Days	34 (Base 50)			
Moisture				
Dew Point	24 °C			
Average Humidity	77			
Maximum Humidity	94			
Minimum Humidity	59			
Precipitation				
Precipitation	3.05 mm	3.81 mm	3.71 mm (1943)	
Month to date precipitation	0,55	0.75		
Year to date precipitation	17.66	28.91		i



Daily Activities

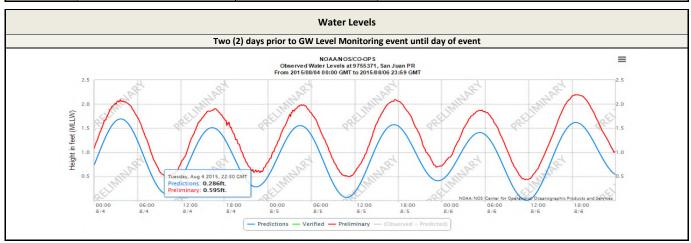
Prepared by: CHES Services Corp. d/b/a: Fernando L. Rodriguez, PE & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants

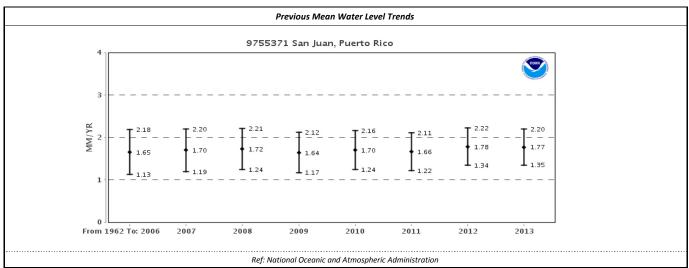
Project: CAF MW Weekly Groundwater levels reading August 6, 2015 LMMIA Date: Address:

Day of GW Level Monitoring event								
Thursday, August 6, 2015								
« Previous Day			Next Day »					
Daily Weekly Monthly Custom								
	Actual	Average	Record					
Temperature								
Mean Temperature	28 °C	29 °C						
Max Temperature	30 °C	32 °C	33 °C (1995)					
Min Temperature	26 °C	26 °C	20 °C (1904)					
Degree Days								
Heating Degree Days	0	0						
Month to date heating degree days		0						
Since 1 June heating degree days		0						
Since 1 July heating degree days		0						
Cooling Degree Days	18	19						
Month to date cooling degree days		114						
Year to date cooling degree days		3398						
Since 1 June cooling degree days		1233						
Growing Degree Days	32 (Base 50)							
Moisture								
Dew Point	23 °C							
Average Humidity	79							
Maximum Humidity	85							
Minimum Humidity	67							
Precipitation								
Precipitation	0.0 mm	3.56 mm	10.29 mm (1955)					
Month to date precipitation		0.89						
Year to date precipitation		29.05						



Project: CAF MW Weekly Groundwater levels reading Address: LMMIA Date: August 6, 2015







Project:	CAF MW Weekly Groundwater levels reading				
Address:	LMMIA	Date:	August 12, 2015		

Phone:	787-751-7810	CHES Representative:	VCP				
Time	Location	Activity / Observations					
7:45	CAF1	CHES and J&S Personnel arrived	CHES and J&S Personnel arrived				
8:00	CAF1	Amy from CAF arrived; provided IDs					
8:30	MW5	MW5S: 6'7" and MW5D: 6'9"					
8:35	MW7	MW7D: 6'2" and MW7S: 6'					
8:41	MW9	MW9S: 5'9" and MW9D: 6'2"					
8:46	MW10	MW10S: 6'6" and MW10D: 6'6". The concrete around	MW10S: 6'6" and MW10D: 6'6". The concrete around MW10S was broken; J&S instructed to fix.				
8:56	MW11	MW11S: 7'6" and MW11D: 7'6"					
9:05	MW6	MW6D: 6'1" and MW6S: 6'7"					
9:10	MW3	MW3D: 6'7" and MW3S: 6'6"					
9:20	MW1	MW1D: 6'1" and MW1S: 6'1"					
9:25	MW4	MW4S: 3' and MW4D: 3'					
9:35	MW2	MW2D: 3'9" and MW2S: 4'2"	MW2D: 3'9" and MW2S: 4'2"				
9:40	MW8	MW8S: 3' and MW8D: 3'2". The water had dark co	lor and some particles.				
9:46		Finished readings.	Finished readings.				
9:50	CAF1	CHES and J&S Personnel Checkout					
		Moving Forward (Ne	xt Steps)				
Action Item			Deadline	%Completion	Responsible Party		
N/A			N/A	N/A	N/A		



Project: CAF MW Weekly Groundwater levels reading LMMIA Date: August 12, 2015 Address:

Weather History					
Tv	vo (2) days prior t	o GW Level Monit	toring event		
Monday, August 10, 2015					
« Previous Day			Next		
Daily Weekly Monthly Custom					
	Actual	Average	Record		
Temperature					
Mean Temperature	29 °C	29 °C			
Max Temperature	33 °C	32 °C	33 °C [1993]		
Min Temperature	26 °C	26 °C	22 °C (1905)		
Degree Days					
Heating Degree Days	0	О			
Month to date heating degree days	0	О			
Since 1 June heating degree days	0	0			
Since 1 July heating degree days	0	0			
Cooling Degree Days	20	19			
Month to date cooling degree days	194	190			
Year to date cooling degree days	3698	3474			
Since 1 June cooling degree days	1357	1309			
Growing Degree Days	34 [Base 50]				
Moisture					
Dew Point	23 °C				
Average Humidity	74				
Maximum Humidity	91				
Minimum Humidity	56				
Precipitation					
Precipitation	T mm	4.06 mm	6.55 mm [1965]		
Month to date precipitation	1.08	1.50			
Year to date precipitation	18.19	29.66			
		Ref: Weather	r Underground		

One (1) day prior	Special Comm			
Tuesday, August 11, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Mean Temperature	29 °C	29 °C		<u> </u>
Max Temperature	32 °C	32 °C	33 °C (2011)	
Min Temperature	26 °C	26 °C	22 °C [1923]	
Degree Days				
Heating Degree Days	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	19	19		
Month to date cooling degree days	213	209		i i
Year to date cooling degree days	3717	3493		
Since 1 June cooling degree days	1376	1328		
Growing Degree Days	34 (Base 50)			
Moisture				
Dew Point	24 °C			
Average Humidity	75			
Maximum Humidity	85			ļ
Minimum Humidity	64			
Precipitation				<u> </u>
Precipitation	0.76 mm	4.32 mm	53.85 mm (1973)	
Month to date precipitation	1.11	1.67		
Year to date precipitation	18.22	29.83		

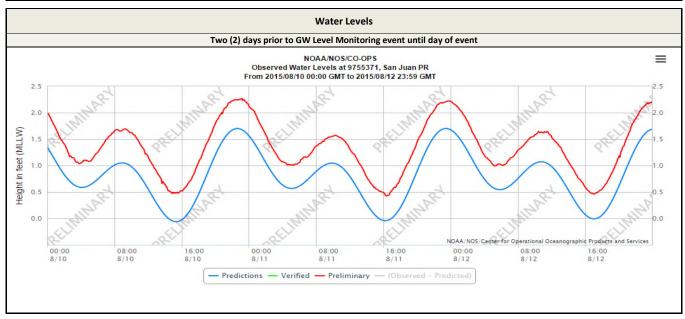


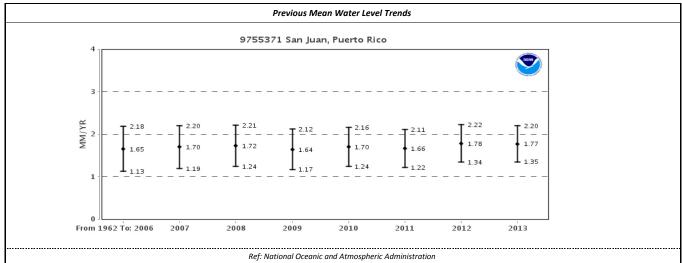
Project: CAF MW Weekly Groundwater levels reading Date: August 12, 2015 LMMIA Address:

Day of GW I	Special Comment			
Miércoles, Agosto 12, 2015				
« Previous Day			Next Day »	
Daily Weekly Monthly Custom				
	Actual	Average	Record	
Temperature				
Temperatura media	30 ° C	29 ° C		
Temperatura máxima	33 ° C	32 ° C	33 ° C (1993)	
Temperatura minima	27 ° C	26 ° C	20 ° C [1904]	
Degree Days				
Grados día de calefacción	0	0		
Month to date heating degree days	0	0		
Since 1 June heating degree days	0	0		
Since 1 July heating degree days	0	0		
Cooling Degree Days	21	19		
Month to date cooling degree days	234	228		
Year to date cooling degree days	3738	3512		
Since 1 June cooling degree days	1397	1347		
Growing Degree Days	36 (Base 50)			
Moisture				
Punto de rocio	24 ° C			
Average Humidity	74			•
Maximum Humidity	85			
Minimum Humidity	63			•
Precipitación				
Precipitación	0.25 mm	4.32 mm	8.10 mm (1956)	
Month to date precipitation	1.12	1.84		
Year to date precipitation	18.23	30.00		



Project: CAF MW Weekly Groundwater levels reading Address: LMMIA Date: August 12, 2015







Project:	CAF MW Weekly Groundwater levels reading				
Address:	LMMIA	Date:	August 27, 2015		

Phone:	787-751-7810	CH	IES Representative:	١	/CP				
Time	Location			Activ	rity / Observations				
7:45		CHES and J&S Personn	el arrived						
8:00	CAF1	Jean Tirri from CAF pro	ean Tirri from CAF provided IDs.						
0.10	MW5	·	IW5S: 6'5" and MW5D: 6'8".						
0.19	IVIVVO								
8:40	MW7	The MW7S and MW7E		water; w	ater extraction began	but rainfall started	. Moved to other		
		points in the mean tim							
8:52	MW9	MW9S: 5'5" and MW9	D: 5'9"						
8:58	MW10	MW10D: 6'3" and MW	/10S: 6'2"						
9:10	MW11	MW11D:6'8" and MW	11S: 6'5"						
9:44	MW7	MW7 were covered will MW7D: 6'0 and MW7S				ater sweeper. Clea	red the area of water.		
9:50	MW6	MW6D: 6'1" and MW6			<u> </u>				
	MW3	MW3S: 6'5" and MW3							
	MW1	MW1D: 6'0" and MW1							
	MW4	MW4D: 2'11" and MW							
10:11	MW2	MW2S: 4'1" and MW2							
10:18	MW8	MW8S: 2'7" and MW8	D: 3'0"						
10:25	CAF1	CHES and J&S Personn	el Checked out						
			Moving For	ward (Nex	rt Steps)				
Action Item				<u> </u>	Deadline	%Completion	Responsible Party		
N/A					N/A	N/A	N/A		
IV/A			West	her Histor	·	N/A	N/A		
		Two (2) da	ys prior to GW Level Mo		•		Special Comments		
	Т	uesday, August 25, 2015	-						
		« Previous Day			Next Day »				
		Daily Weekly Monthly Cus	stom						
		Temperature	Actual	Average	Record				
		Mean Temperature	26 °C	29 °C					
		Max Temperature	28 °C	32 °C	33 °C [1981]				
		Min Temperature Degree Days	24 °C	26 °C	21 °C (1913)				
		Heating Degree Days	0	0					
		Month to date heating degree days	0	0					
		Since 1 June heating degree days	0	0					
		Since 1 July heating degree days	0	0					
		Cooling Degree Days	14	19					
		Month to date cooling degree days	461	475					
		Year to date cooling degree days	3965	3759					
		Since 1 June cooling degree days	1624	1594					
		Growing Degree Days	28 (Base 50)						
		Moisture							
		Dew Point							
		Dew Point Average Humidity	26 °C 94						
		Average Humidity							
			94						
		Average Humidity Maximum Humidity	94 100						
		Average Humidity Maximum Humidity Minimum Humidity	94 100	5.08 mm	5.28 mm (1976)				
		Average Humidity Maximum Humidity Minimum Humidity Precipitation	94 100 88	5.08 mm 4.22	5.28 mm [1976]				

Year to date precipitation

Ref: Weather Underground

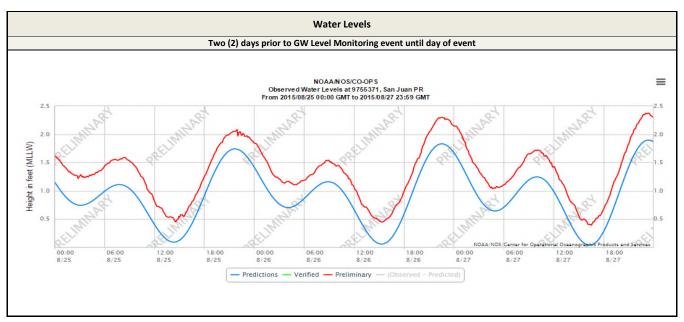


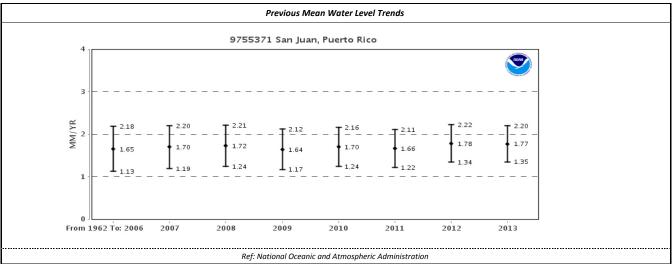
Project: CAF MW Weekly Groundwater levels reading Date: August 27, 2015 LMMIA Address:

		Weather	History		
One (1) da	ay prior to GW L				Special Com
Wednesday, August 26, 2015					
« Previous Day				Next Day »	
				Next buy »	
Daily Weekly Monthly Custom					
	Actual	Average	Record		
Temperature					
Mean Temperature	27 °C	29 °C			
Max Temperature	29 °C	32 °C	35 °C (200		
Min Temperature	25 °C	26 °C	21 °C [1956	6]	
Degree Days					
Heating Degree Days	0	0			
Month to date heating degree days	0	0			
Since 1 June heating degree days	0	0			
Since 1 July heating degree days	0	0			
Cooling Degree Days	16	19			
Month to date cooling degree days	477	494			
Year to date cooling degree days	3981	3778			
Since 1 June cooling degree days	1640	1613			
Growing Degree Days	30 (Base 50)				
Moisture					
Dew Point	26 °C				
Average Humidity	91				
Maximum Humidity	100				
Minimum Humidity					
	82				
Precipitation					
Precipitation	0.00 mm	5.08 mm	6.12 mm [1	1984]	
Month to date precipitation	5.20	4.42			į.
Year to date precipitation	22.31	32.58 Ref: Weather L	Underground		
Year to date precipitation		32.58 Ref: Weather L		'	
		32.58 Ref: Weather L Weather	History		Special Com
Da	y of GW Level M	32.58 Ref: Weather L Weather	History	'	 Special Com
	y of GW Level M	32.58 Ref: Weather L Weather	History	Next Day »	Special Com
Dav Thursday, August 27, 20 « Previous Day	y of GW Level M	32.58 Ref: Weather L Weather	History		Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C	y of GW Level M	32.58 Ref: Weather L Weather	History		Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C	y of GW Level M 115 Custom	32.58 Ref: Weather L Weather	ent Average	Next Day »	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature	y of GW Level M 115 Custom Actual 28 °C	32.58 Ref: Weather L Weather	History ent Average	Next Day »	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Max Temperature	y of GW Level M 115 Custom Actual 28 °C 31 °C	32.58 Ref: Weather L Weather	Average 29 °C 32 °C	Next Day » Record 33 °C (1982)	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Max Temperature Min Temperature	y of GW Level M 115 Custom Actual 28 °C	32.58 Ref: Weather L Weather	History ent Average	Next Day »	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Max Temperature Min Temperature Degree Days	y of GW Level M 115 Custom Actual 28 °C 31 °C 25 °C	32.58 Ref: Weather L Weather	Average 29 °C 32 °C 26 °C	Next Day » Record 33 °C (1982)	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly Co Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days	y of GW Level M 115 Custom Actual 28 °C 31 °C 25 °C 0	32.58 Ref: Weather L Weather	Average 29 °C 32 °C 26 °C	Next Day » Record 33 °C (1982)	Special Com
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Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Men Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days	y of GW Level M 115 Custom Actual 28 °C 31 °C 25 °C 0 0 0 0 18 495 3999	3258 Ref: Weather L Weather Ionitoring evo	Average 29 °C 32 °C 26 °C 0 0 19 513 3797	Next Day » Record 33 °C (1982)	Special Com
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Thursday, August 27, 20 « Previous Day Daily Weekly Monthly of Temperature Mean Temperature Mean Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Since 1 June cooling degree days Year to date cooling degree days Moisture Dew Point Average Humidity Maximum Humidity	y of GW Level M 115 28 °C 31 °C 25 °C 0 0 0 18 495 3999 1658 32 (Base 25 °C 84 100	3258 Ref: Weather L Weather Ionitoring evo	Average 29 °C 32 °C 26 °C 0 0 19 513 3797	Next Day » Record 33 °C (1982)	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Mean Temperature Min Temperature Min Temperature Mean Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity	y of GW Level M 115 Lustom Actual 28 °C 31 °C 25 °C 0 0 0 18 495 3999 1658 32 [Base 25 °C 84	3258 Ref: Weather L Weather Ionitoring evo	Average 29 °C 32 °C 26 °C 0 0 19 513 3797	Next Day » Record 33 °C (1982)	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Mean Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Since 1 June tooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity Precipitation	y of GW Level M 115 Custom Actual 28 °C 31 °C 25 °C 0 0 0 18 495 3999 1658 32 (Base 25 °C 84 100 68	3258 Ref: Weather L Weather Ionitoring evo	Average 29 °C 32 °C 26 °C 0 0 19 513 3797 1632	Next Day » Record 33 °C (1982) 22 °C (1958)	Special Com
Thursday, August 27, 20 « Previous Day Daily Weekly Monthly C Temperature Mean Temperature Mean Temperature Min Temperature Min Temperature Meating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Since 1 June to date cooling degree days Year to date cooling degree days Month to date cooling degree days Since 1 June cooling degree days Year to date cooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity Minimum Humidity	y of GW Level M 115 28 °C 31 °C 25 °C 0 0 0 18 495 3999 1658 32 (Base 25 °C 84 100	3258 Ref: Weather L Weather Ionitoring evo	Average 29 °C 32 °C 26 °C 0 0 19 513 3797	Next Day » Record 33 °C (1982)	Special Com



Project:	CAF MW Weekly Groundwater levels reading				
Address:	LMMIA	Date:	August 27, 2015		







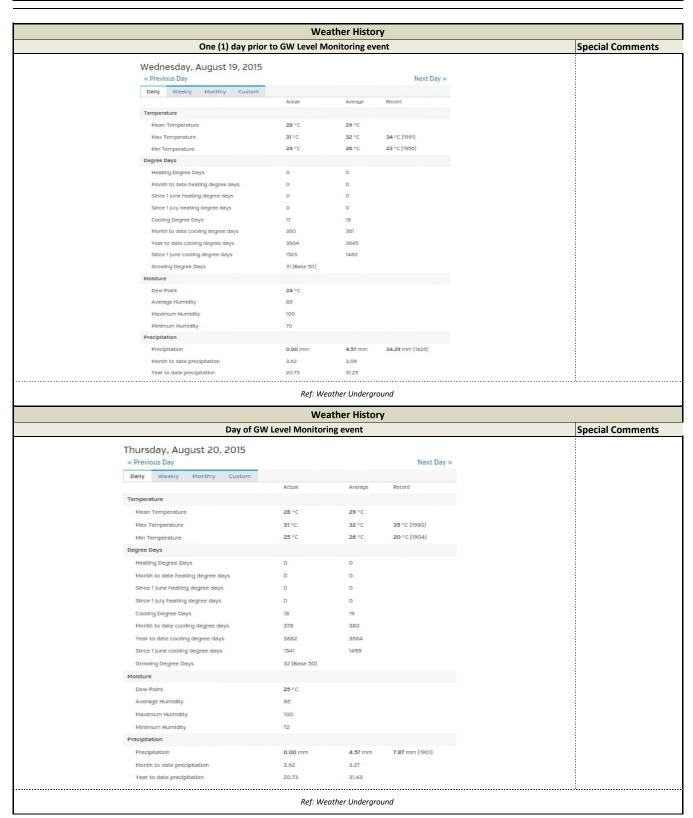
Project:	CAF MW Weekly Groundwater levels reading				
Address:	LMMIA	Date:	August 20, 2015		

hone:	787-751-7810	CHES Rep	resentative:	NDM	/				
ime	Location			Activity	/ Observations				
7:45	CAF1	CHES and J&S Personnel arri	ved						
8:00	CAF1	Amy from CAF arrived; provided IDs							
8:16	MW3	Arrived for GW level reading	Arrived for GW level readings. Done at 8:23						
8:24	MW5	Arrived for GW level reading	s. Both wells are	e full of wa	ater passed the wate	er-tight plug. Drair	ned water.		
8:27	MW5	Done							
8:28	MW6	Arrived for GW level reading	s. Done at 8:38						
8:33	B MW7	Arrived for GW level reading opening well cap.	s. Both wells are	e full of wa	ater passed the wate	er-tight plug. Evacı	uated water prior to		
8:42	MW7	Done							
	MW10	Arrived for GW level reading	s Done at 8:48						
) MW11	Arrived for GW level reading							
			<u>*</u>						
	B MW1	Arrived for GW level reading							
9:08	MW4	Arrived for GW level reading	gs. Done at 9:11						
9:12	MW2	Arrived for GW level reading	gs. Done at 9:18						
9:19	MW8	Arrived for GW level reading	gs. Done at 9:23						
9:30	CAF1	CHES and J&S Personnel Che	ecked out						
			Moving Forwa	ard (Next S	teps)				
ction Item					Deadline	%Completion	Responsible Party		
ction Item					Deadline N/A	%Completion	Responsible Party		
ction Item			Weathe	or History	Deadline N/A	%Completion N/A	Responsible Party		
		Two (2) davs prio		er History	N/A	1	N/A		
			Weather to GW Level Monit		N/A	1	-		
		Two (2) days prior Tuesday, August 18, 2015 « Previous Day			N/A	1	N/A		
		Tuesday, August 18, 2015	r to GW Level Moni	toring event	N/A Next Day »	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom	r to GW Level Moni		N/A	1	N/A		
		Tuesday, August 18, 2015 « Previous Day	r to GW Level Moni	toring event	N/A Next Day »	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature	r to GW Level Moni	toring event	N/A Next Day »	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature	Actual 27 °C	Average	N/A Next Day >> Record	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days	Actual 27 °C 30 °C 24 °C	Average 29 °C 32 °C 26 °C	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days	Actual 27 °C 30 °C 24 °C	Average 29 °C 32 °C 26 °C	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days	Actual 27 °C 30 °C 24 °C 0	Average 29 °C 32 °C 26 °C	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days	Actual 27 °C 30 °C 24 °C 0 0 0	Average 29 °C 32 °C 26 °C	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days	Actual 27 °C 30 °C 24 °C 0	Average 29 °C 32 °C 26 °C	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days Since I July heating degree days	Actual 27 ° C 30 ° C 24 ° C 0 0 0 0 0 0	Average 29 °C 32 °C 26 °C 0 0	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Since 1 July heating degree days Cooling Degree Days	Actual 27 ° C 30 ° C 24 ° C 0 0 0 0 0 16	Average 29 °C 32 °C 26 °C 0 0 0 0 19	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days Since I July heating degree days Cooling Degree Days Month to date cooling degree days	Actual Actual 27 °C 30 °C 24 °C 0 0 0 16 343	Average 29 °C 32 °C 26 °C 0 0 0 19 342	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days Since I July heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days	Actual Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days	Actual Actual 27 °C 30 °C 24 °C 0 0 0 0 16 343 3847 1506	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days	Actual Actual 27 °C 30 °C 24 °C 0 0 0 0 16 343 3847 1506	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Since 1 July heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days Moisture	Actual Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847 1506 30 (Base 50)	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity	Actual Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847 1506 30 (Base 50) 24 °C 85 100	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days Cooling Degree Days Month to date cooling degree days Cooling Degree Days Month to date cooling degree days Since I June cooling degree days Year to date cooling degree days Since I June cooling degree days Since I June cooling degree days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity	Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847 1506 30 (Base 50)	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since 1 June heating degree days Cooling Degree Days Month to date cooling degree days Year to date cooling degree days Since 1 June cooling degree days Year to date cooling degree days Since 1 June cooling degree days Growing Degree Days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity Precipitation	Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847 1506 30 (Base 50) 24 °C 85 100 70	Average. 29 °C 32 °C 26 °C 0 0 19 342 3626 1461	N/A Next Day >> Record 34 °C (1991) 22 °C (1956)	1	N/A		
		Tuesday, August 18, 2015 « Previous Day Daily Weekly Monthly Custom Temperature Mean Temperature Max Temperature Min Temperature Min Temperature Degree Days Heating Degree Days Month to date heating degree days Since I June heating degree days Cooling Degree Days Month to date cooling degree days Cooling Degree Days Month to date cooling degree days Since I June cooling degree days Year to date cooling degree days Since I June cooling degree days Since I June cooling degree days Moisture Dew Point Average Humidity Maximum Humidity Minimum Humidity	Actual Actual 27 °C 30 °C 24 °C 0 0 0 16 343 3847 1506 30 (Base 50) 24 °C 85 100	Average 29 °C 32 °C 26 °C 0 0 0 19 342 3626	N/A Next Day >> Record 34 °C [1991]	1	N/A		

Ref: Weather Underground

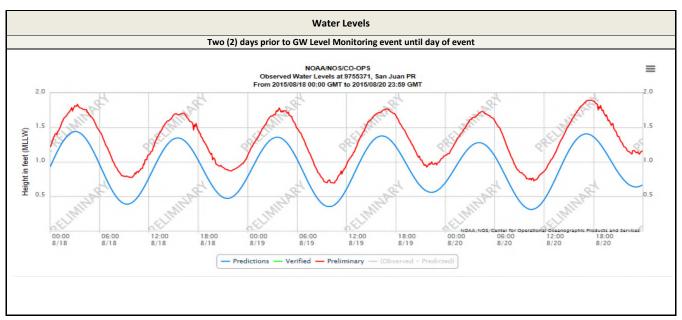


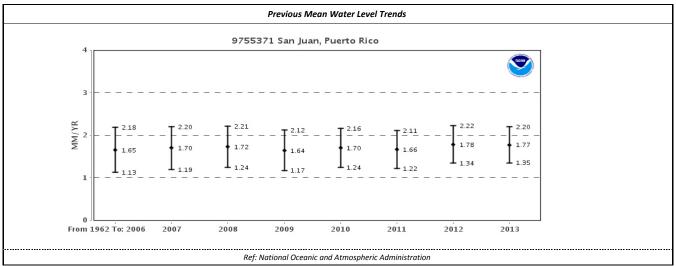
Project: CAF MW Weekly Groundwater levels reading Address: LMMIA August 20, 2015





Project:	CAF MW Weekly Groundwater levels reading				
Address:	LMMIA	Date:	August 20, 2015		







Project:	CAF Groundwater Monitoring Wells		
Address:	LMMIA	Date:	August-15

Weather History

Climatological Data for SAN JUAN L M MARIN AP, PR - August 2015

Click column heading to sort ascending, click again to sort descending.

Date		Temper	rature		HDD	CDD	Dunninitation	New Snow	Carana Daniel	
	Maximum	Average	Departure	HDD	CDD	Precipitation	New Show	Snow Dept		
2015-08-01	90	78	84.0	0.5	0	19	0.00	0.0	0	
2015-08-02	88	76	82.0	-1.5	0	17	0.36	0.0	0	
2015-08-03	92	79	85.5	2.0	0	21	0.05	0.0	0	
2015-08-04	90	79	84.5	0.9	0	20	T	0.0	0	
2015-08-05	90	77	83.5	-0.1	0	19	0.12	0.0	0	
2015-08-06	90	79	84,5	0.9	0	20	0.04	0.0	0	
2015-08-07	90	76	83.0	-0.6	0	18	0.05	0.0	0	
2015-08-08	92	80	86.0	2.4	0	21	0.44	0.0	0	
2015-08-09	90	78	84.0	0.3	0	19	0.00	0.0	0	
2015-08-10	92	78	85.0	1.3	0	20	0.00	0.0	0	
2015-08-11	90	78	84.0	0.3	0	19	0.03	0.0	0	
2015-08-12	91	80	85.5	1.8	0	21	0.00	0.0	0	
2015-08-13	90	78	84.0	0.3	0	19	0.01	0.0	0	
2015-08-14	91	79	85.0	1.3	0	20	0.01	0.0	0	
2015-08-15	89	80	84.5	0.8	0	20	0.01	0.0	0	
2015-08-16	91	75	83.0	-0.7	0	18	1.82	0.0	0	
2015-08-17	87	74	80.5	-3.3	0	16	0.57	0.0	0	
2015-08-18	86	75	80.5	-3.3	0	16	0.08	0.0	0	
2015-08-19	87	76	81.5	-2.3	0	17	0.00	0.0	0	
2015-08-20	88	77	82,5	-1.3	0	18	0.00	0.0	0	
2015-08-21	88	76	82.0	-1.8	0	17	1.04	0.0	0	
2015-08-22	89	75	82.0	-1.8	0	17	0.00	0.0	0	
2015-08-23	87	77	82.0	-1.8	0	17	0.02	0.0	0	
2015-08-24	88	78	83.0	-0.8	0	18	0.04	0.0	0	
2015-08-25	82	75	78,5	-5.3	0	14	0.48	0.0	0	
2015-08-26	85	77	81.0	-2.8	0	16	0.00	0.0	0	
2015-08-27	88	77	82,5	-1.3	0	18	0.25	0.0	0	
2015-08-28	89	76	82,5	-1.3	0	18	0.22	0.0	0	
2015-08-29	89	80	84.5	0.7	0	20	0.00	0.0	0	
2015-08-30	89	78	83.5	-0.2	0	19	0.29	0.0	0	
2015-08-31	89	79	84.0	0.3	0	19	T	0.0	0	
Sum	2757	2400	-	-	0	571	5.93	0.0	-	
Average	88.9	77.4	83.2	-0.5	-	-	- 2	-	0.0	
Normal	89.2	78.2	83.7	-	0	580	5.46	0.0	-	

Ref: NOAA NWSF; NOWData - NOAA Online Weather Dat; San Juan LMMIA Statioi



Second Bimonthly Report

Groundwater Monitoring Wells at the Luis Muñoz Marin International Airport (LMMIA)

2.0 GROUNDWATER LEVELS DATABASE

The following groundwater levels database includes data corresponding to the twenty-two (22) wells installed at the LMMIA.



Fernando L. Rodríguez, P.E. & Associates
Chemical/Environmental Engineering & Industrial Hygiene Consultants
PO BOX 193430 San Juan, PR 00919-3430
Tel.: 787-751-7810 | Fax: 787-751-8988 | flrodriguez@flraches.com | www.flraches.com



Groundwater Monitoring Wells Construction and Sampling Project

Weekly GW Level Readings

GW Level Monitoring Projected End: August 24, 2015 **GW Level Monitoring Start:** May 18, 2015

	Well ID	MW1S	MW1D	MW2S	MW2D	MW3S	MW3D	MW4S	MW4D	MW5S	MW5D	MW6S	MW6D	MW7S	MW7D	MW8S	MW8D	MW9S	MW9D	MW10S	MW10D	MW11S	MW11D
	Well depth		20.5'	10'	20'		20¹		20' 5"		20'		20.5'		20.5'	10'	20.5'		20.51		20.5'		23.5'
Week of	Date																						
May 18, 2015	May 18, 2015	6' 3"	6' 4"	4' 7"	4' 4"	-	-	3' 5"	2' 8"	6' 9"	8' 6"	-	-	-	-	-	-	-	-	-	-	-	-
May 18, 2015	May 19, 2015	-	-	-	-	-	-	-	-	-	-	6' 3"	6' 4"	6'	6' 6"	-	-	6'	13'	6' 9"	6' 9"	6' 3"	9'
May 18, 2015	May 20, 2015	-	-	-	-	6'4"	6'5"	-	-	-	-	-	-	-	-	2'8"	3'	7'	7'7"	-	-	7'4"	7'4"
May 25, 2015	May 28, 2015	6'	6'	4'1"	4'	6'5"	6'6"	2'11"	2'11"	NR	6'10"	5'10"	6'6"	5'11"	6'11"	3'	3'1"	6'11"	7'2"	6'6"	6'8"	7'2"	7'
June 1, 2015	June 4, 2015	6' 3"	6' 5"	4'	3' 6"	6' 3"	6' 2"	31	3'	6 ¹	6' 8"	5' 6"	6'	5' 8"	6' 1"	2' 8"	2' 2"	5' 6"	7'	6' 3"	6' 3"	6' 7"	7'
June 8, 2015	June 11, 2015	5' 9"	5' 11"	4' 1"	3' 10"	7'	7'	3'	3' 3"	6' 11"	7' 1"	6' 3"	6' 6"	6' 1"	4' 3"	2' 11"	3' 6"	6' 6"	7' 1"	7'	6' 10"	7' 3"	7' 6"
June 15, 2015	June 18, 2015	-	-	4¹	3' 6"	-	-	3' 2"	2' 11"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June 15, 2015	June 19, 2015	5' 10"	5' 7"	-	-	6' 4"	6' 3"	-	-	6' 11"	6' 5"	5' 6"	6'	5' 7"	4' 1"	2' 11"	3'	5' 11"	6' 6"	6' 4"	6' 4"	7"	7'
June 22, 2015	June 25, 2015	6'	6' 4"	4' 4"	4' 1"	6' 9"	6' 10"	3' 4"	3' 3"	6' 9"	6' 11"	6' 2"	6' 4"	6' 1"	5'	3'	3' 4"	5' 10"	6' 7"	6' 10"	6' 9"	7' 6"	7' 5"
June 29, 2015	July 2, 2015	5' 11"	6' 3"	4' 4"	4' 1"	6' 7"	6' 9"	3' 3"	3' 2"	6' 9"	6' 11"	6' 2"	6' 5"	6' 1"	6' 4"	3'	3' 4"	5' 10"	6' 6"	6' 8"	6' 8"	7' 2"	7' 3"
July 6, 2015	July 9, 2015	5' 10"	6' 3"	4' 3"	4'	6' 8"	6' 9"	3' 4"	3' 2"	6' 8"	6' 10"	6' 2"	6' 4"	6' 1"	6' 3"	3'	3' 4"	5' 10"	6' 4"	6' 8"	6' 8"	7' 7"	7' 4"
July 13, 2015	July 16, 2015	6'	6' 2"	4' 2"	3' 11"	6' 6"	6' 8"	3' 3"	3' 2"	6' 8"	6' 10"	6' 2"	6' 4"	6' 1"	6' 4"	2' 11"	3' 3"	6' 3"	6' 5"	6' 7"	6' 7"	7'	7' 3"
July 20, 2015	July 21, 2015	-	-	-	-	6' 7"	6' 9"	-	-	6' 7"	6' 10"	6' 1"	6' 4"	6'	6' 4"	-	-	6' 2"	6' 7"	6' 7"	6' 7"	7' 3"	7' 4"
July 20, 2015	July 22, 2015	6'	6' 4"	4' 2"	4'	-	-	3' 4"	3' 2"	-	-	-	-	-	-	3'	3' 3"	-	-	-	-	-	-
July 27, 2015	July 30, 2015	6'	6' 2"	4' 4"	4'	6' 7"	6' 8"	3' 4"	3' 1"	6' 8"	6' 8"	6' 2"	6' 3"	6'	7' 7"	3' 1"	3' 5"	6' 1"	6' 3"	6' 7"	6' 7"	7' 8"	7' 6"
August 3, 2015	August 6, 2015	6' 1"	6' 2"	4' 2"	4'	6' 8"	6' 9"	3' 4"	3' 2"	6' 7"	6' 10"	6' 5"	6' 4"	6' 2"	7' 3"	3' 1"	3' 4"	6' 10"	6' 2"	6' 8"	6' 10"	7' 9"	7' 7"
August 10, 2015	August 12, 2015	6'1"	6'1"	4' 2"	3'9"	6'6"	6'7"	3'	3'	6'7"	6'9"	6'7"	6'1"	6'	6'2"	3'	3'2"	5'9"	6'2"	6'6"	6'6"	7'6"	7'6"
August 17, 2015	August 20, 2015	6'	5' 10"	3' 10"	4' 1"	6' 8"	6' 7"	3'	3' 1"	6' 7"	6' 8"	6' 1"	6' 1"	5' 11"	6' 2"	2' 10"	3'	5' 6"	6'	6' 3"	6' 4"	6' 8"	6' 11"
August 24, 2015	August 27, 2015	6'	6'	4'1"	3'9"	6'5"	6'6"	3'	2'11"	6'5"	6'8"	6'	6'1"	5'10"	6'	2'7"	3'	5'5"	5'9"	6'2"	6'3"	6'5"	6'8"

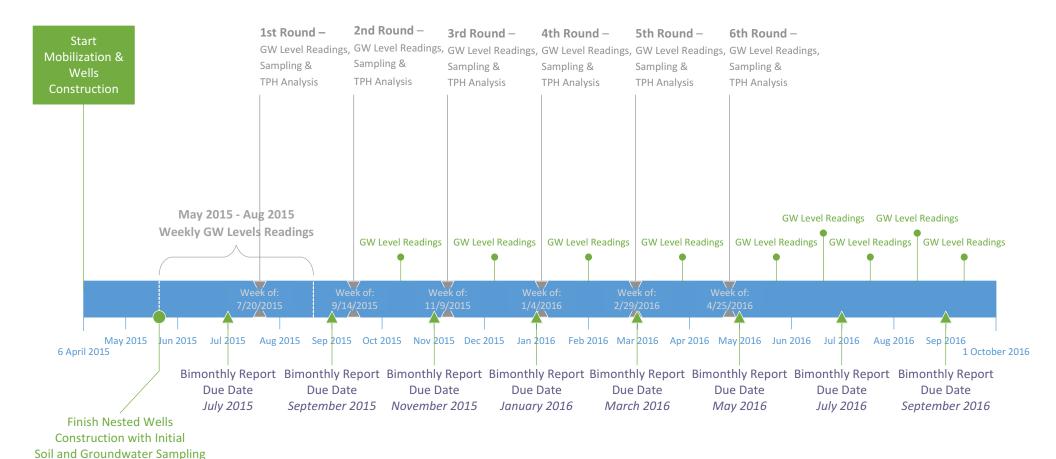


Second Bimonthly Report

Groundwater Monitoring Wells at the Luis Muñoz Marin International Airport (LMMIA)

3.0 PROJECT PROGRESS AND/OR PROPOSED SCHEDULE

The following pages provide project progress details and an updated proposed schedule for the tasks agreed upon with U.S. EPA.



Rev.: June 3, 2015

Caribbean Airport Facilities, Inc.

LMMIA, Carolina, PR

Eleven (11) Nested Groundwater Monitoring Wells

Construction with Bimonthly

Sampling/Analysis Timeline

Notes:

- 1. During the months of April and May 2015, groundwater (GW) and soil samples were collected at each one of the nested wells as they were constructed.
- 2. The following 3-month period, on a weekly basis, GW levels (shallow and deep) are being logged, and monthly thereafter.
- 3. After the initial sampling, the nested wells are to be sampled and samples to be analyzed for TPH analysis by the designated laboratory on a bimonthly basis (every 2 months) for the first year.

M. LaReau (EPA): After sampling and water level measurements have commenced, CAF can make a recommendation based on the data to alter this schedule. At that time, EPA will review all documents presented to determine if a change is warranted.



Second Bimonthly Report

Groundwater Monitoring Wells at the Luis Muñoz Marin International Airport (LMMIA)

4.0 REFERENCES

- 1 Weather Underground. Historical Weather. [Internet]. 2015 Available from: http://www.wunderground.com/history/.
- 2 Center for Operational Oceanographic Products and Services. Observed Tides/Water Levels at 9755371, San Juan, PR. [Internet]. Available from: http://tidesandcurrents.noaa.gov/waterlevels.html.